



City of Newcastle

Public Works Department

Newcastle Citizens Academy
March 8, 2018

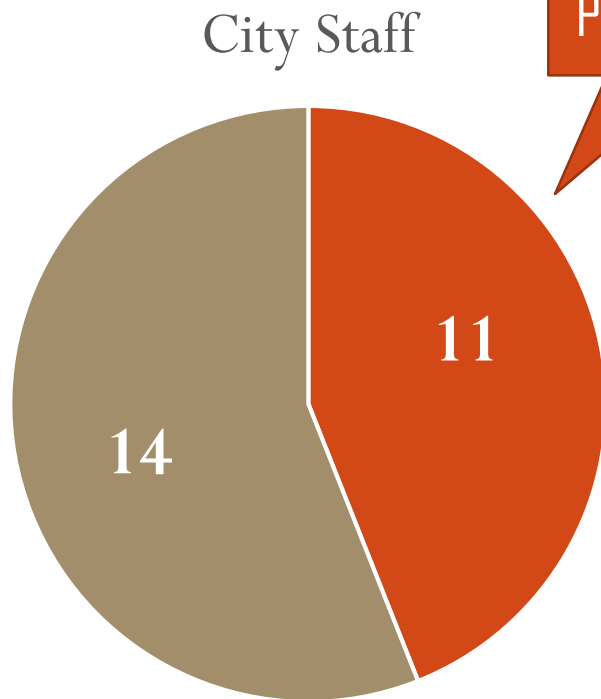
WHO we are



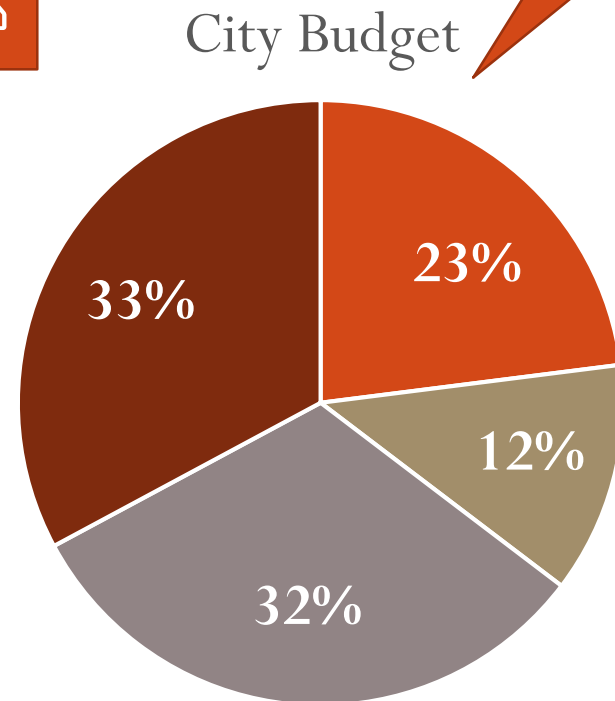
WHAT do we do

and **WHY** do we do it

WHO we are



PUBLIC WORKS

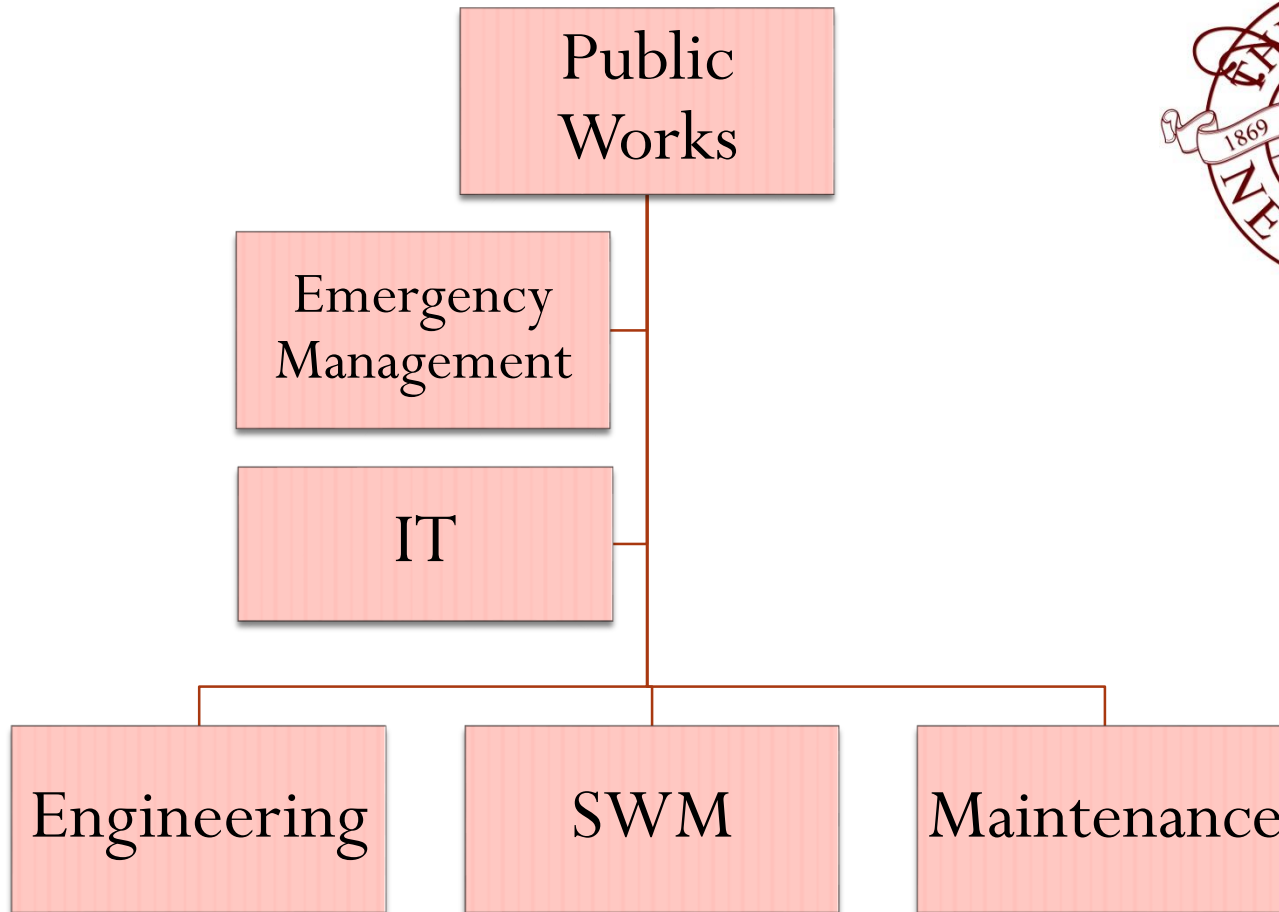


Public Works
represents
35%
of the total
City Budget

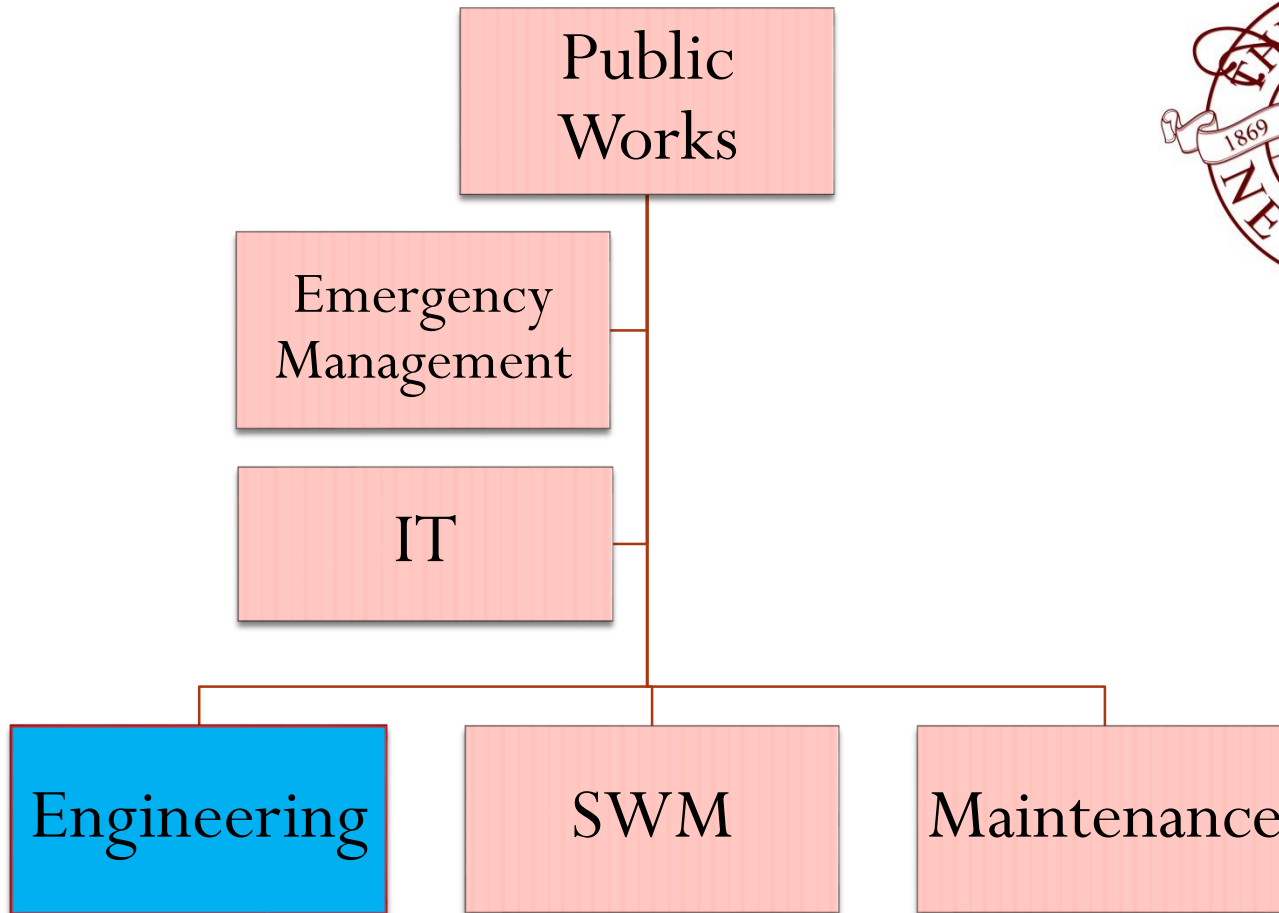
■ PW Operations
■ Public Safety

■ PW Capital
■ Other

WHO we are



WHO we are



WHO we are: Engineering Division



- ROW/SWM Inspector (1½)

Eric Greene

Years at City

1

- Project Planner

Julie Cassata, PLA

2

- Assistant City Engineer

Kerry Sullivan, EIT

10

- Public Works Director

Jeff Brauns, PE

3

WHAT do we do

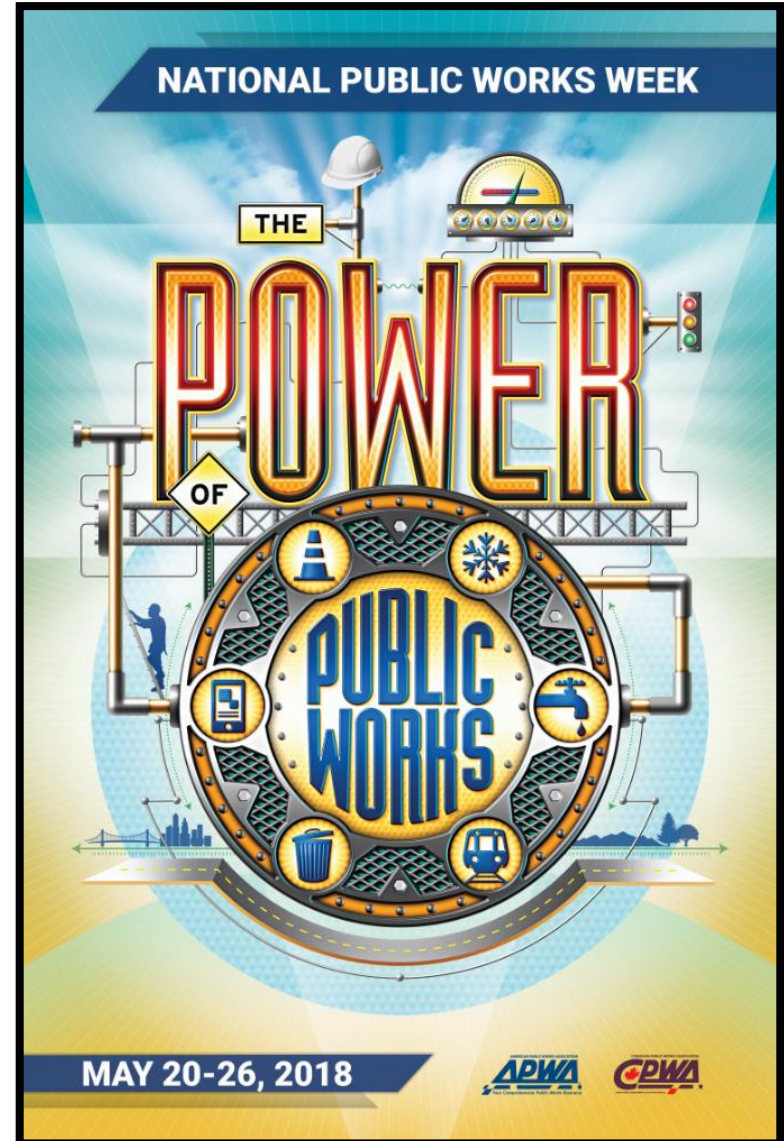


Plan

Build

Operate

Maintain



WHAT do we do: Engineering

Services and Programs

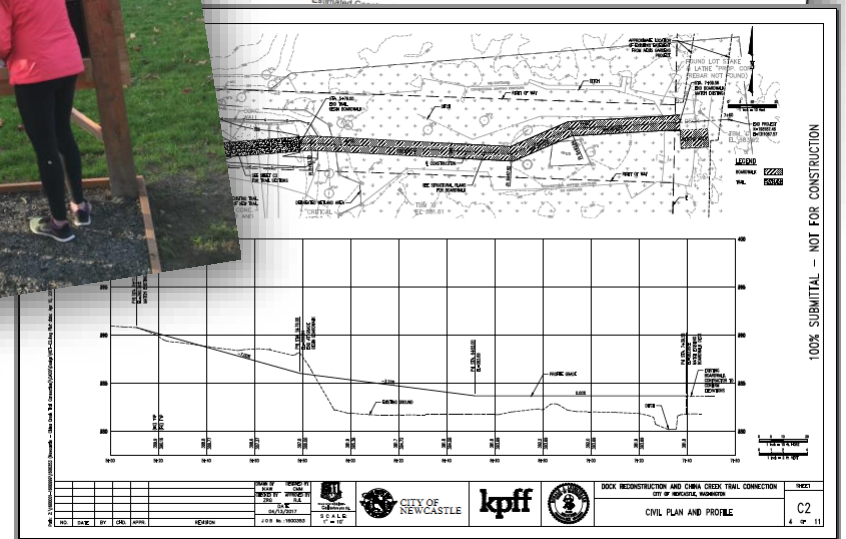
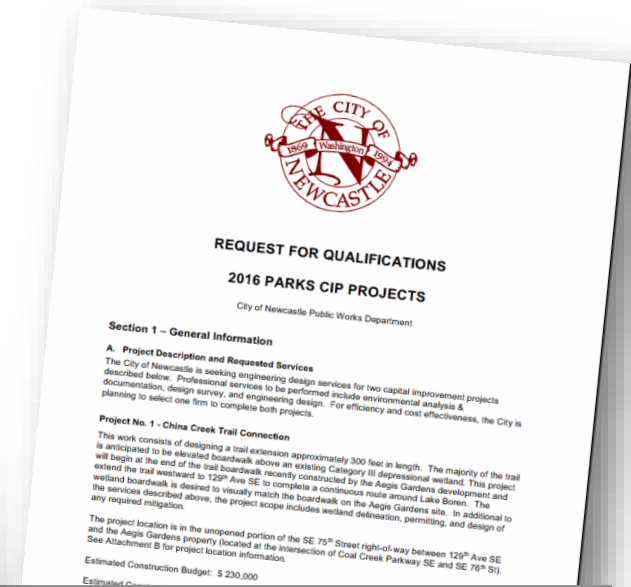
- Capital Improvement Program
 - Transportation
 - Parks
 - SWM
- Inspection
 - Development
 - ROW
- Plan, Manage, & Respond
 - Master Plans
 - Reporting
 - Citizen Requests

WHY do we do it: Engineering

- Enhance the build environment
- Improve safety
- Ensure public improvements are built properly
- Serve our customers

WHAT do we do: Engineering

Capital Improvement Program



WHAT do we do: Engineering

Capital Improvement Program

Construction Management

- Advertise
- Bid Opening
- Bid Tabulation
- Mandatory Bidders Responsibility Checklist
- Pre-Construction Meeting
- Review of Submittals
- Intents
- Utility Coordination
- Interlocal Agreements
- Conflict Resolution
- Resident Interaction
- Inspections
- Quantity Tracking
- Force Account
- Minor Changes
- Change Orders
- Pay Requests
- Substantial Completion
- Physical Completion
- Certificate of Final Completion
- Affidavits
- Notice of Completion
- Council Acceptance
- Certificates of Release
- Release of Retainage
- State Audits

WHAT do we do: Engineering

Capital Improvement Program



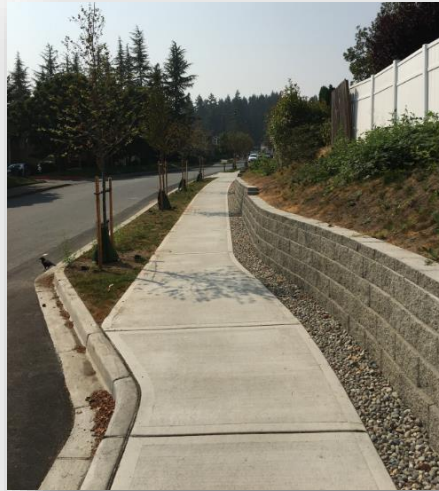
WHAT do we do: Engineering

Capital Improvement Program



WHAT do we do: Engineering

Capital Improvement Program



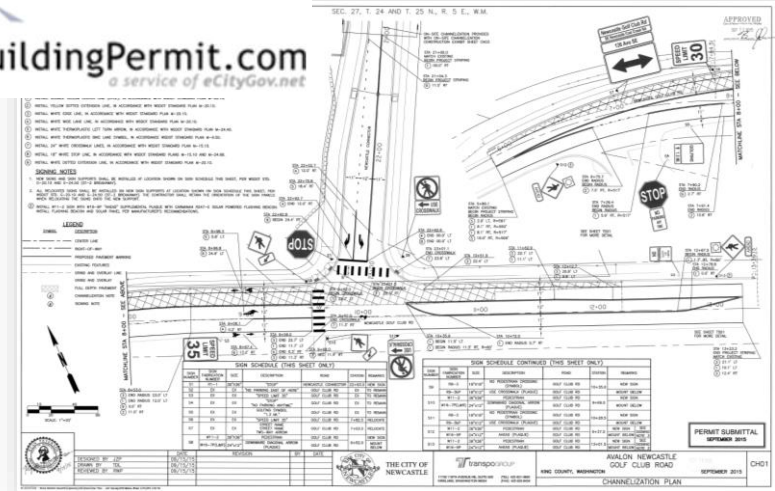
WHAT do we do: Engineering

Capital Improvement Program



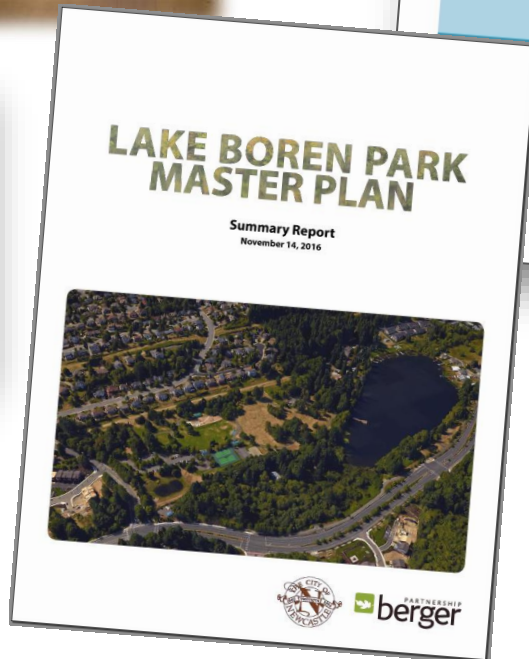
WHAT do we do: Engineering

Inspection



WHAT do we do: Engineering

Plan, Manage, & Respond



RESOLUTION ATTACHMENT A

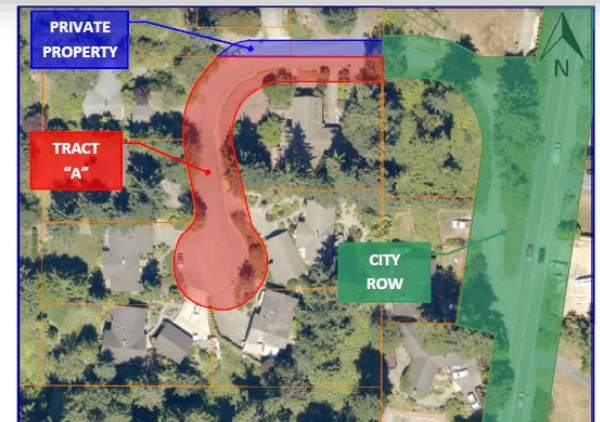
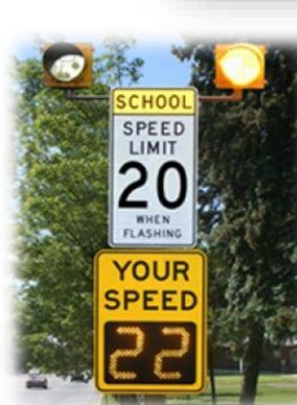
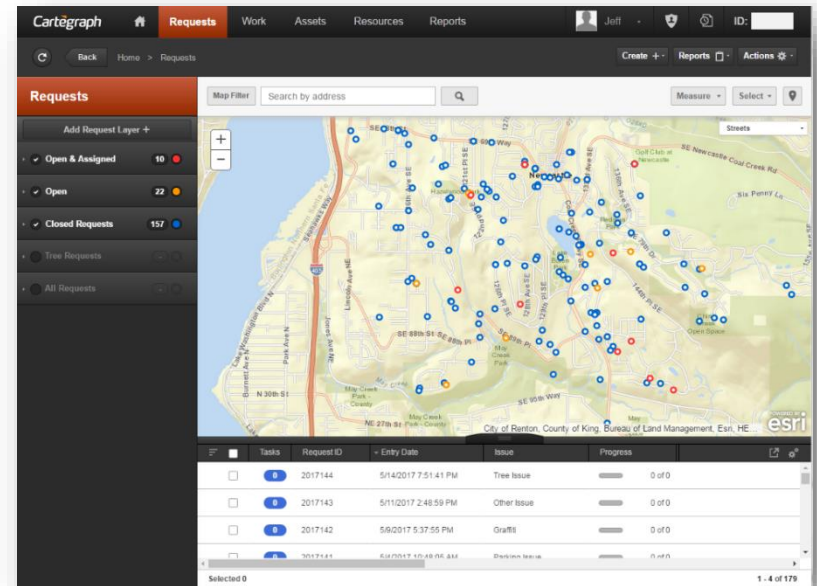
2018-2023
Six-Year Transportation Improvement Program

Type	Project No.	Project Name	2018	2019	2020	2021	2022	2023	6-year Total
Preservation	T-011	Pavement Management Program	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000
	T-013	Pavement Management System		16,000		7,500		60,000	83,500
Capital Projects	T-020	SE 84 th Street Extension to SE May Creek Park Drive (Design & ROW)						5,300,000	5,300,000
	T-033	SE May Creek Park Drive (Javel) Non-motorized Improvements - 12100 Road to 12000 Ave SE (Design & Construction, Phase II)				100,000	900,000		1,000,000
	T-034	Lake Washington Blvd SE Non-motorized Improvements - SE 73rd St to SE 64th St (Design & Construction)			200,000	1,200,000			1,400,000
	T-041	12000 Ave SE Non-motorized Enhancements - Jane Boren Park to Newcastle Way (Design & Const., Phase II)	100,000	300,000					400,000
	T-042	Newcastle Way/12000 Ave SE Intersection Improvements (Design & Construction)			500,000				500,000
	T-044	Cost Creek Pathway SE Pedestrian Crossing Improvements (Design & Construction)		225,000					225,000
	T-045	Newcastle Way Non-motorized Improvements - 11200 Ave SE to 14400 Ave SE (Design & Construction)	425,000						425,000
	T-046	11200 Ave SE Non-motorized Improvements - Newcastle Way to SE 64th St (Design & Construction)			950,000				950,000
	T-047	SE May Creek Park Drive (Javel) Non-motorized Improvements - Lincoln Drive NE to 12000 Ave SE (Study)	60,000						60,000
	T-019	City Wide Traffic Calming	75,000	75,000	75,000	75,000	75,000	75,000	450,000
Programs	T-006	Pedestrian Walkways	20,000	20,000	20,000	20,000	20,000	20,000	120,000
		Totals	1,280,000	1,116,000	1,345,000	1,952,000	1,545,000	2,005,000	10,213,000

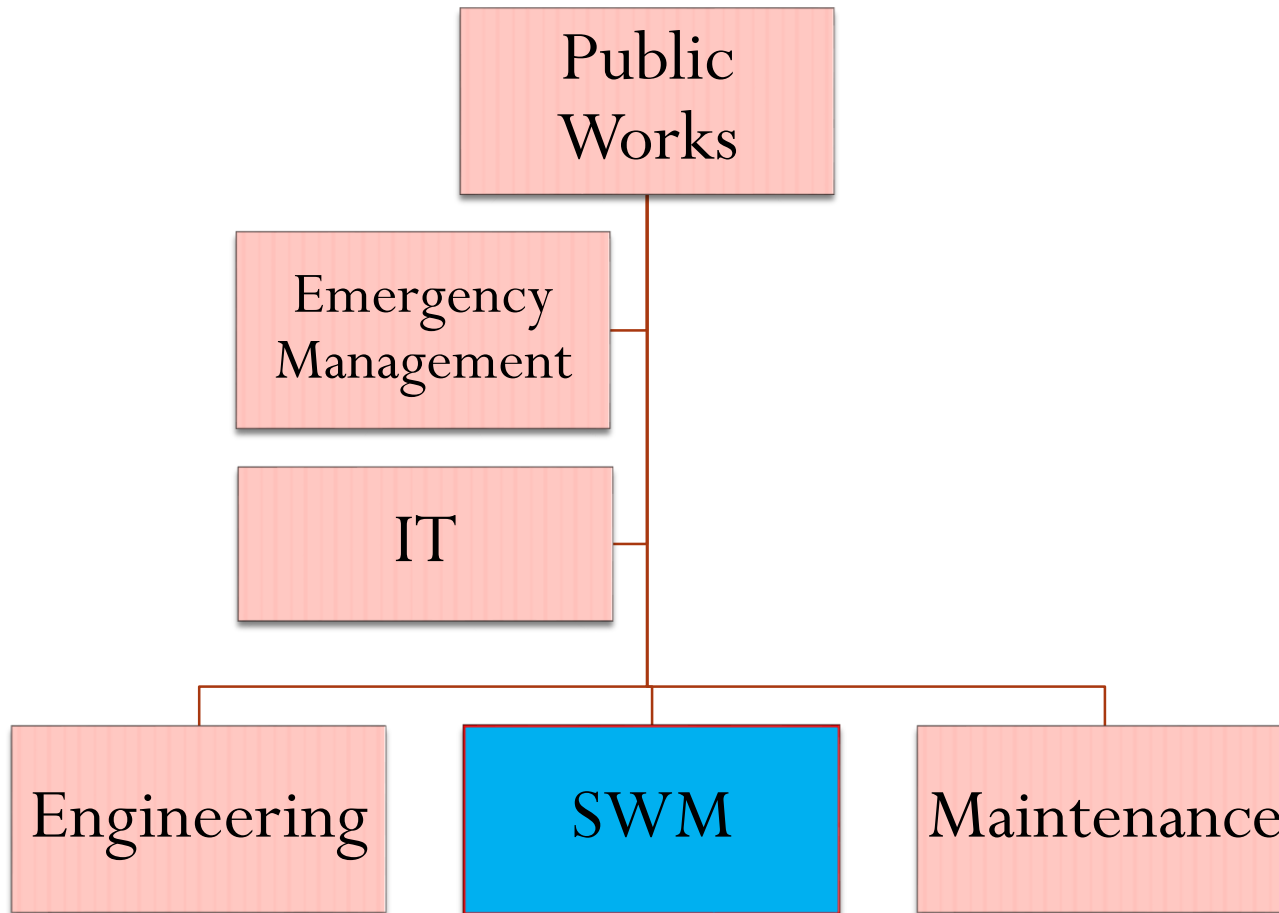
Adopted July 5, 2017 by Resolution 2017-702

WHAT do we do: Engineering

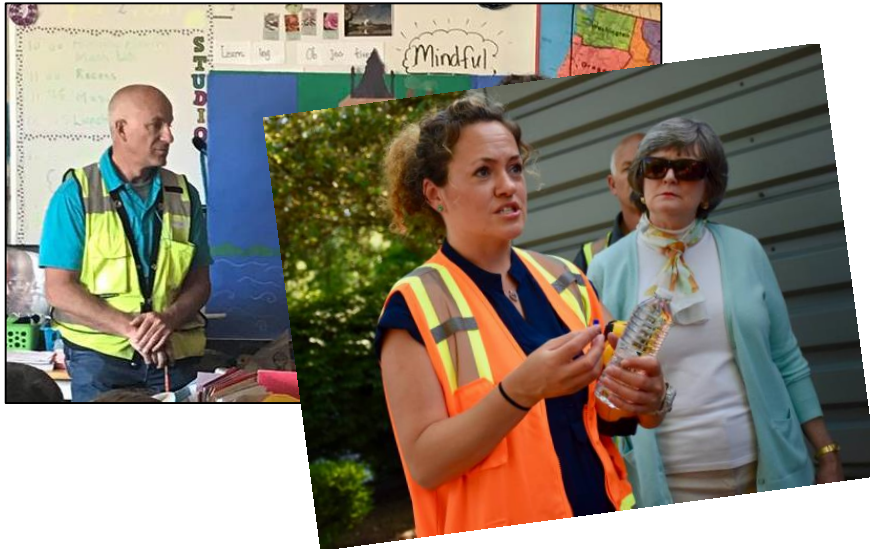
Plan, Manage, & Respond



WHO we are



WHO we are: SWM Division



- Surface Water Program Manager
- ROW/SWM Inspector (1/2)
- Maintenance Technician
- Maintenance Technician

Audrie Starsy

Eric Greene

Jacob Woll

(vacant)

Years at City

1 ½

1

2 ½

WHAT do we do: SWM

Services and Programs

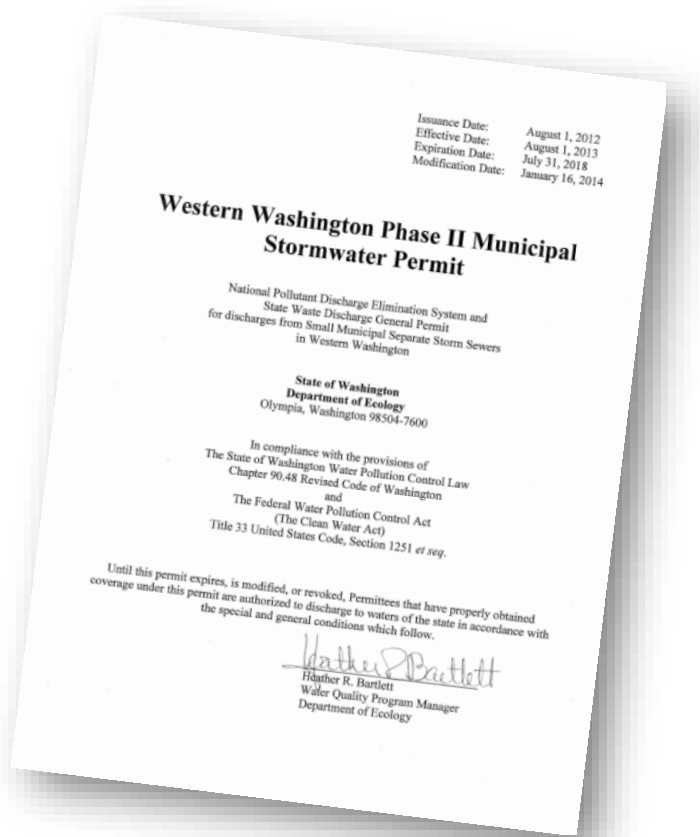
- Manage NPDES Phase II permit
 - Permit Administration and Regional Coordination
 - Public Education and Outreach
 - Illicit Discharge Detection & Elimination (IDDE) Program
 - Construction Site Runoff Program
 - Operations & Maintenance
 - Monitoring and Assessment Program
- Drainage complaints and concerns
- Inspect stormwater facilities

WHY do we do it: SWM

- Regulatory requirement
 - Protect water quality
 - Protect the environment
 - Reduce pollutants
- Prevent damage to people & property
- Address flooding concerns
- Preserve public infrastructure

WHAT do we do: SWM

Manage NPDES Phase II permit



WESTERN WASHINGTON PHASE II MUNICIPAL STORMWATER PERMIT IMPLEMENTATION SCHEDULE																		
CHAPTER	SECTION	SUB-SECTION	TASKS	2015				2016				2017				2018		
				February 16	March 31	May 15	July 15	September 15	November 15	January 15	March 15	May 15	July 15	September 15	November 15	January 15	March 15	May 15
A	A1	SWMP Develop & Implement	a. SWMP Plan Annually Updated															
			b. Track Costs or Estimated Costs															
			c. Track Inspections, Enforcements & Public Educ. Activities															
			d. Continue Implementation of Existing Programs															
			e. Include Coord. Mech. w/ Other Entities (If Applicable)															
			f. SWMP Includes Internal Coordination Mechanisms															
			g. Public Education & Outreach (Local or Regional)															
			h. Create Stewardship Opportunities															
			i. Measure Understanding & Adoption of Behaviors															
			j. Public Involvement & Participation (Create opport.)															
B	B1	SWMP & Annual Report Website Posting	a. SWMP & Annual Report Website Posting															
			b. Ilicit Discharge Detection and Elimination															
			c. Ongoing Stormwater Mapping - periodically update															
			d. Map All New Connections Since February 16, 2007															
			e. IDDE Ordinance Update															
			f. Ilicit Discharge Detection & Elimination Program															
			g. Field Screen 40% of MS4 12/31/17 - 12% yrs thereafter															
			h. Document Field Screen Methodology in Annual Report															
			i. Publically List Phone #'s for Reporting Spills															
			j. Ongoing Training all Muni. Field Staff - Lvl B (Tracked)															
C	C1	IDDE Education	a. IDDE Education															
			b. Ongoing Training IDDE Staff - Lvl A (Tracked)															
			c. Construction Site Runoff Program															
			d. Update Construction Site Runoff Ordinance															
			e. Adopt Appendix 1 or Approved Phase I Program															
			f. Adopt Variance Criteria Equiv. to Appendix 1															
			g. Site Plan & BMP Select per Append 1 or Approved Ph I															
			h. Ord./ Reg. Mech. Giving Legal Authority to Inspect															
			i. Implement Permit Process / Plan Review & Inspect. w/ new thresholds															
			j. Review All Stormwater Site Plans															
D	D1	Pre-Con Site Inspection	a. Pre-Con Site Inspection															
			b. Inspect All Sites for Erosion and Sediment Controls															
			c. Enforce ESC as Necessary															
			d. Final ESC Inspection															
			e. Maintenance Plan for New Facilities (Bond Program)															
			f. Enforce Maintenance Plan (Bond Program)															
			g. Minimum 80% Compliance w/ Inspect. Requirements															
			h. Enforcement Strategy															
			i. O&M for Private Stormwater Facilities & BMPs															
			j. Long Term Mnt. - Treatment & Flow Control BMPs															
E	E1	Enforce. Mech. Identifying Responsibilities for O&M	a. Enforce. Mech. Identifying Responsibilities for O&M															
			b. Est. Maint. Standard = to Ch 4 Vol V of 12 SMMWW															
			c. Annual Inspection of Private Facilities Apnd after 2/15/10															
			d. Inspect Bonded Resid. Facilities Every 6 Months until 90% of lots constructed (or when construction stops and sites are fully stabilized)															
			e. Compliance = records + 80% scheduled inspections															
			f. Perform Timely Maintenance															
			g. Track Inspections, Enforcements etc. (All Notices)															
			h. Make NOI for Const. & Industrial Site Avail. & Enforce Local Regs on NPDES Const. Sites															
			i. Train All Applicable Staff on Above Activities (Track)															
			j. Low Impact Development															
F	F1	Watershed Scale Stormwater Planning w/ Phase Is	a. Watershed Scale Stormwater Planning w/ Phase Is															
			b. O&M Program (for Municipally Owned or Operated)															
			c. Update Maint. Strds = to Ch 4 Vol V of 12 SMMWW															
			d. Perform Timely Maintenance															
			e. Annually Inspect All Treatment & Flow Contr. Facilities															
			f. Spot Check Inspections After Major Storms (10 yr 24 Hour)															
			g. Catch Basin Insp. & Mnt. - All by 8/17 - then every 2 yrs															
			h. Ensure 80% compliance for O&M inspections															
			i. Establish & Implement Practices to Reduce Impacts															
			j. O&M Training Program (Train to Standards)															
G	G1	SWPPPs for All Heavy Equip. Mnt. & Storage Yards	a. SWPPPs for All Heavy Equip. Mnt. & Storage Yards															
			b. Track Maint. & Repair Activities Identified Above															
			c. Monitoring & Assessment - Submit Stormwater Studies															
			d. Status & Trends Monitoring Notification & Contribution															
			e. Effectiveness Monitoring Notification & Contribution															
			f. Source Ident. & Diagnostic Monitoring (Info. Repository)															
			g. Annual Compliance Report															
			h. Apply for permit renewal															
			i. 2 year schedule															
			j. 2 year schedule															

LEGEND:

Ongoing Requirement

Permit Deadline

LEGEND:

Ongoing Requirement

Permit Deadline

WHAT do we do: SWM

Manage NPDES Phase II permit



REPORT A SPILL OR FLOODING CONCERN

IF YOU NEED TO REPORT A
HAZARDOUS SPILL OR
URGENT MATTER 24 HOURS
A DAY, 7 DAYS A WEEK
CALL 206-296-3311

To report a non-hazardous spill during
regular business hours
(Monday-Friday, 8 a.m.-5 p.m.)
Call 425-649-4444

On evenings and weekends
Call 206-296-3311

For drainage concerns or other water
quality concerns, fill out a request at
yourgov.cartegraph.com



WHAT do we do: SWM

Manage NPDES Phase II permit



WHAT do we do: SWM

Manage NPDES Phase II permit



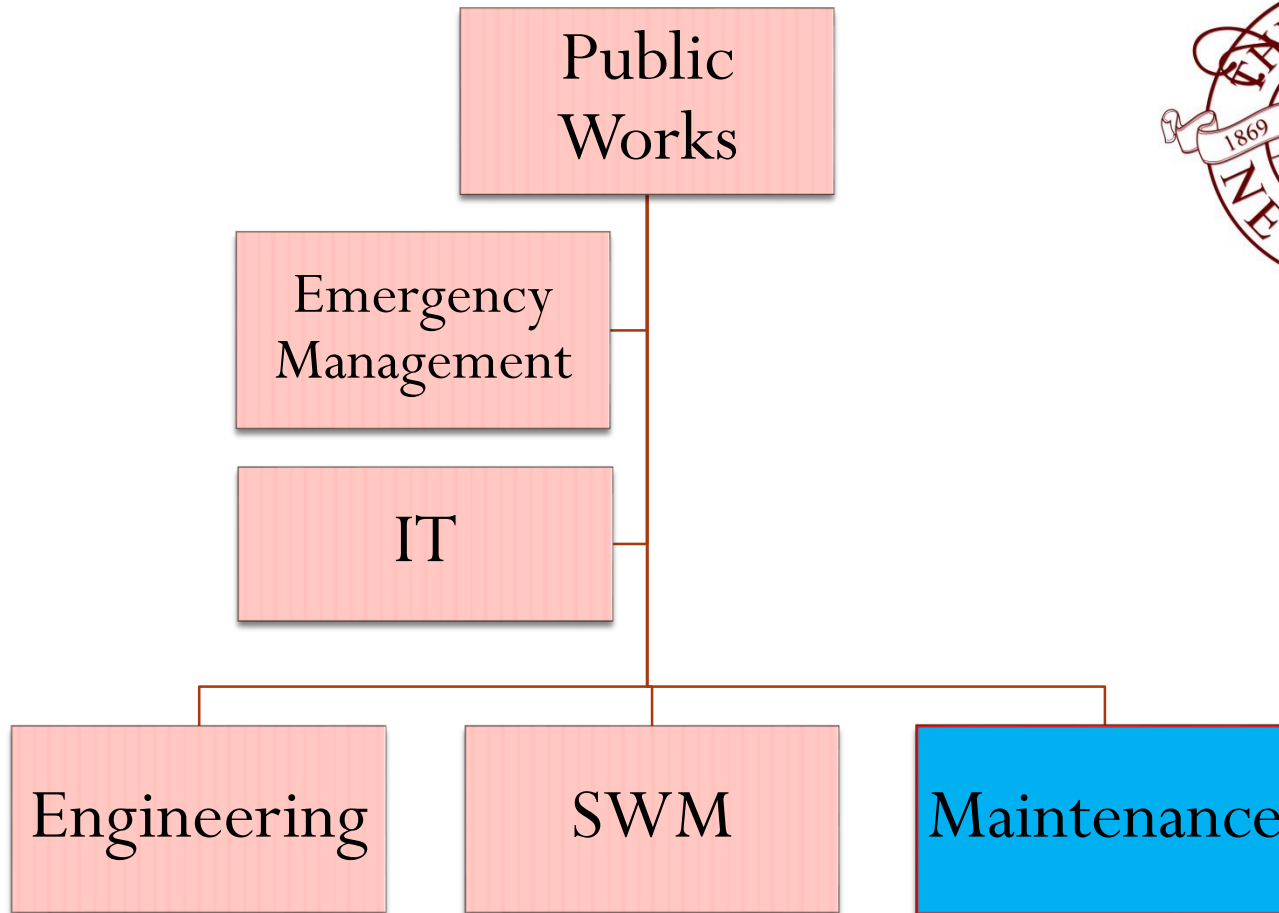
Required SWM Inspections Per Year – Current Conditions						
Asset Type	Approx. Quantity	Labor Time per Asset	Total Time (per year)	Weekly Equivalent	SWM Staff Previously	SWM Staff - Recommended
Catch basins*	1,600	0.5 hour	800 hours	20 weeks	Intern	Inspector/ New FTE
Tank/Vault	65+	1.0	65 hours	1.6 weeks	Maintenance/ Program Mgr.	Inspector/ New FTE
Ponds	45+	1.5 – 2 hours	67 – 90 hours	2.25 weeks	Maintenance/ Program Mgr.	Inspector/ New FTE
Outlets/Outfalls	107+	0.5 hour	53 hours	1.33 weeks	Program Manager	Inspector/ Program Manager
Private Systems	26+	4 – 5 hours	104 – 130 hours	3.25 weeks	Program Manager	Program Manager/ New FTE
TESC Inspections**	15+ (weekly)	1.0	780 hours	19.5 weeks	Program Manager	Inspector/ Program Manager
Post-storm Inspections**	45+	2.0	90 hours	2.25 weeks	Maintenance/ Program Mgr.	Maintenance/ Program Mgr.
LID					N/A	Maintenance/ Program Mgr.
Total	1,903	N/A	2,008 hours	50.2 weeks		
Source Control (next NPDES Permit cycle)	50+	2.5	125 hours	3 weeks	N/A outreach only	Program Manager/ New FTE

* New permit requirement, starting this year.

**Varies, depending on the year and amount of construction/rain.



WHO we are



WHO we are: Maintenance Division



- Infrastructure Maintenance Manager

Corey Miller

Years at City

9

- Streets/Transportation

Gary Gomes

23

- Streets/Transportation

Connor Simonson

1

- Parks and Trails

Leo Anaya

7

- Surface Water Management

Jacob Woll

2 ½

- Surface Water Management

(vacant)

WHAT do we do: Maintenance

Services and Programs

- Streets
- Parks
- SWM
- Facilities
- Fleet

WHY do we do it: Maintenance

- Public Safety
- Maintain & preserve public infrastructure
- Recreational opportunities

WHAT do we do: Maintenance

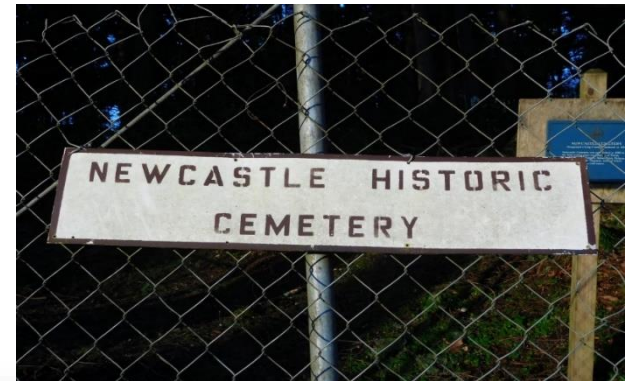
Streets



WHAT do we do: Maintenance

Parks

- Lake Boren
- Donegal
- Windtree
- China Creek
- Ballybunion
- Gleneagles
- Redman
- Highlands
- Forest View
- Tralee
- Madison Lane
- China Falls
- Heritage Morgan
- Hazelwood – undeveloped
- Little Rhody
- Cemetery



WHAT do we do: Maintenance

Parks

- Lake Boren
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WHAT do we do: Maintenance

Parks



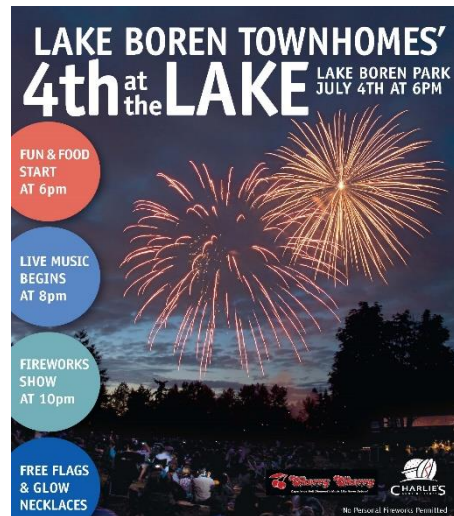
WHAT do we do: Maintenance

Parks



WHAT do we do: Maintenance

Parks



Contract Administration & Management

- ROW & Landscape Maintenance
- Street Sweeping
- Janitorial
- Tree Evaluation (Arborist)
- Tree Removal
- Routine Vector/SWM Maintenance
- Access Controls/Security Systems
- King County - Community Work Program
- King County - Water Quality Monitoring
- King County - Street Maintenance
- City of Renton - Fleet Maintenance



WHAT do we do: Maintenance

SWM



WHAT do we do: Maintenance

SWM



WHAT do we do: Maintenance

SWM





Questions?

